

## AMENDMENT AND RESPONSE

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Serial No.: 10/626,933

Filing Date: 7/25/2003

Attorney Docket No. 100.535US01

Title: SYSTEM AND DEVICES FOR ROUTING AND MANAGING DATA CABLES FROM A  
TELECOMMUNICATIONS ENCLOSURE

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (Currently Amended) A system for managing and routing one or more data cables, the system comprising:
  - a telecommunications enclosure having an external surface, wherein the telecommunications enclosure is adapted to house at least one or more data cables; and
  - a cable routing station coupled to the external surface of the telecommunications enclosure, the cable routing station adapted to selectively route at least one of the one or more data cables out of the telecommunications enclosure, wherein the route provides a bend radius for the at least one of the one or more data cables within a predetermined standard[.];  
and  
wherein the cable routing station comprises,
    - a rear face having a front surface and a first edge extending along a length of the front surface,
    - a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face,
    - a plurality of cable routing clips coupled to the front surface of the rear face adapted to route the one or more data cables in a select direction, and
    - wherein the cable routing clips rotate around an axis perpendicular to the rear face.
2. (Original) The system of claim 1, wherein at least one of the data cables is an optical fiber.

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3. (Previously presented) The system of claim 1, wherein the telecommunications enclosure has a top end and front end, and further wherein the cable routing station is coupled to the top end of the telecommunications enclosure and proximately adjacent to the front end of the telecommunications enclosure.
4. (Canceled)
5. (Currently amended) The cable routing station of claim [4] 1, wherein at least one of the one or more data cables is an optical fiber.
6. (Canceled)
7. (Currently amended) The cable routing station of claim [4] 1, wherein at least one cable routing clip is positioned a select distance from another of the at least one cable routing clip.
8. (Currently amended) ~~The cable routing station of claim 4, further comprising:~~ A cable routing station comprising:  
a telecommunications enclosure having an external surface, wherein the telecommunications enclosure is adapted to house at least one or more data cables;-and  
a cable routing station coupled to the external surface of the telecommunications enclosure, the cable routing station adapted to selectively route at least one of the one or more data cables out of the telecommunications enclosure, wherein the route provides a bend radius for the at least one of the one or more data cables within a predetermined standard[.];  
and  
wherein the cable routing station comprises,

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a rear face having a front surface and a first edge extending along a length of the front surface,

a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face,

a plurality of cable routing clips coupled to the front surface of the rear face adapted to route the one or more data cables in a select direction,

one or more long cable routing clips adapted to guide data cables into the cable routing system station; and

one or more eyebrows, each eyebrow being coupled to the front surface of the rear face, each eyebrow having an engaging surface that has a bend radius along its length that is within the standard bend radius for optical fibers, wherein data cables abutting the eyebrow conform to the bend radius.

9. (Currently amended) The cable routing station of claim [4] 1, wherein the rear face includes two ends, the rear face being curved adjacent the ends.
10. (Currently amended) The cable routing station of claim [4] 1, wherein the rear face has exposed edges, further wherein the exposed edges of the rear face are hemmed.
11. (Currently amended) The cable routing station of claim [4] 1, further comprising:  
a plurality of fasteners attached to bottom plate.
12. (Currently amended) The cable routing station of claim [4] 1, further comprising:  
one or more long cable routing clips, wherein each long cable routing clip is coupled to the front surface of the mounting plate and is adapted to guide the one or more data cables to the cable routing system.

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13. (Original) The cable routing station of claim 12, wherein the long cable routing clips rotate around an axis perpendicular to the rear face.
14. (Original) The cable routing station of claim 12, wherein at least one long cable routing clip is positioned a select distance from another of the at least one long cable routing clip.
15. (Currently amended) ~~The cable routing station of claim 4, further comprising:~~ A cable routing station comprising:  
a telecommunications enclosure having an external surface, wherein the telecommunications enclosure is adapted to house at least one or more data cables;  
a cable routing station coupled to the external surface of the telecommunications enclosure, the cable routing station adapted to selectively route at least one of the one or more data cables out of the telecommunications enclosure, wherein the route provides a bend radius for the at least one of the one or more data cables within a predetermined standard;  
and  
wherein the cable routing station comprises,  
a rear face having a front surface and a first edge extending along a length of the front surface,  
a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face,  
a plurality of cable routing clips coupled to the front surface of the rear face adapted to route the one or more data cables in a select direction; and  
one or more eyebrows, each eyebrow is coupled to the front surface of the rear face, one or more, each eyebrow having an engaging surface adapted to abut at least one of the one or more data cables.

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16. (Original) The cable routing station of claim 15, wherein the engaging surface of each eyebrow has a select bend radius that extends along the length of the engaging surface, wherein a section of data cable abutting the engaging surface substantially conforms to the bend radius of the engaging surface.
17. (Original) The cable routing station of claim 15, wherein the bend radius of the engaging surface is within the standard bend radius for optical fibers.
18. (Original) The cable routing station of claim 15, wherein the eyebrows have exposed edges, the exposed edges being beveled.
19. (Currently amended) ~~The system of claim 4, wherein the cable routing station comprising:~~ A cable routing station comprising:  
a telecommunications enclosure having an external surface, wherein the telecommunications enclosure is adapted to house at least one or more data cables;  
a cable routing station coupled to the external surface of the telecommunications enclosure, the cable routing station adapted to selectively route at least one of the one or more data cables out of the telecommunications enclosure, wherein the route provides a bend radius for the at least one of the one or more data cables within a predetermined standard;  
and  
wherein the cable routing station comprises,  
a rear face having a front surface and a first edge extending along a length of the front surface,  
a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face,  
a plurality of cable routing clips coupled to the front surface of the rear face adapted to route the one or more data cables in a select direction;

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a mounting plate having a front surface and a first and second edge;

a bottom plate coupled to the mounting plate extending along the length of the front surface proximate the first edge;

at least one hook coupled to the front surface of the mounting plate proximate the second edge of the mounting plate;

at least one cable hinge holder coupled to the bottom plate; and

wherein the at least one closed cable hinge holder and the at least one hook are adapted to route data cables in a select direction.

20. (Original) The cable routing station of claim 19, wherein the bottom plate has at least one mounting aperture.

21. (Original) The cable routing station of claim 19, further comprising:  
a cable tunnel adapted to route multiple data cables, the cable tunnel coupled to the second edge of the mounting plate.

22. (Original) The cable routing station of claim 19, wherein the cable tunnel has exposed edges, the exposed edges of the cable tunnel being hemmed.

23. (Original) The cable routing station of claim 19, wherein the top surface of cable tunnel contain at least one access aperture.

24. (Original) The cable routing station of claim 19, wherein the mounting plate has exposed edges, the exposed edges of the mounting plate being hemmed.

25. (Currently amended) A cable routing station for managing and routing one or more data cables, the cable routing station comprising:

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a rear face having a front surface and a first edge extending along the length of the front surface;

a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face; and

a plurality of cable routing clips coupled to the front surface of the rear face adapted to route data cables in a select direction[.] ;and

one or more long cable routing clips, wherein each long cable routing clip is coupled to the front surface of the mounting plate and is adapted to guide data cables into the cable routing system, wherein the long cable routing clips rotate around an axis perpendicular to the rear face.

26. (Original) The cable routing station of claim 25, wherein at least one data cable is an optical fiber.
27. (Original) The cable routing station of claim 25, wherein the cable routing clips rotate around an axis perpendicular to the rear face.
28. (Original) The cable routing station of claim 25, wherein at least one cable routing clip is positioned a select distance from another of the at least one cable routing clip.
29. (Currently amended) ~~The cable routing station of claim 25, further comprising:~~ A cable routing station for managing and routing one or more data cables, the cable routing station comprising:  
a rear face having a front surface and a first edge extending along the length of the front surface;  
a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face;

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a plurality of cable routing clips coupled to the front surface of the rear face adapted to route data cables in a select direction;

one or more long cable routing clips adapted to guide data cables into the cable routing system; and

one or more cymbrows, each cymbrow being coupled to the front surface of the rear face, each cymbrow having an engaging surface that has a bend radius along its length that is within the standard bend radius for optical fibers, wherein data cables abutting the cymbrow conform to the bend radius.

30. (Original) The cable routing station of claim 25, wherein the rear face includes two ends, the rear face being curved adjacent the ends.
31. (Original) The cable routing station of claim 25, wherein the rear face has exposed edges, further wherein the exposed edges of the rear face are hemmed.
32. (Original) The cable routing station of claim 25, further comprising:  
a plurality of fasteners attached to bottom plate.
33. (Canceled)
34. (Canceled)
35. (Currently amended) The cable routing station of claim [33] 25, wherein at least one long cable routing clip is positioned a select distance from another of the at least one long cable routing clip.



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36. ~~(Currently amended) The cable routing station of claim 25, further comprising:~~ A cable routing station for managing and routing one or more data cables, the cable routing station comprising:

a rear face having a front surface and a first edge extending along the length of the front surface;

a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face;

a plurality of cable routing clips coupled to the front surface of the rear face adapted to route data cables in a select direction; and

one or more eyebrows, each eyebrow coupling to the front surface of the rear face and moreover, each eyebrow having an engaging surface adapted to abut one or more data cables.

37. (Original) The cable routing station of claim 36, wherein the engaging surface of each eyebrow has a select bend radius that extends along the length of the engaging surface, wherein a section of data cable abutting the engaging surface substantially conforms to the bend radius of the engaging surface.

38. (Original) The cable routing station of claim 36, wherein the bend radius of the engaging surface is within the standard bend radius for optical fibers.

39. (Original) The cable routing station of claim 36, wherein the eyebrows have exposed edges, the exposed edges being hemmed.

40. (Previously presented) A cable routing station for managing and routing one or more data cables, the cable routing station comprising:

a mounting plate having a front surface and a first edge extending along the length of the front surface;

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one or more long cable routing clips, wherein each long cable routing clip is coupled to the front surface of the mounting plate and is adapted to guide data cables to the cable routing system; and

one or more eyebrows, each eyebrow having an engaging surface that has a select radius along a length of the engaging surface, each eyebrow is coupled to the front surface of the mounting plate, wherein data cables routed about the engaging surface of an associated eyebrow substantially conform to the bend radius of the eyebrow.

41. (Original) The cable routing station of claim 40, wherein each eyebrow is adapted to bend data cables within the standard bend radius for optical fibers.
42. (Original) The cable routing station of claim 40, wherein at least one data cable is an optical fiber.
43. (Original) The cable routing station of claim 40, wherein at least one of the one or more long cable routing clips rotate around an axis perpendicular to the rear face.
44. (Original) The cable routing station of claim 40, wherein at least one long cable routing clips is positioned a select distance from another of the at least one long cable routing clip.
45. (Original) The cable routing station of claim 40, further comprising:  
one or more cable routing clips coupled to the front surface of the mounting plate, the one or more cable routing clips are adapted to route the data cables in a select direction.
46. (Original) The cable routing station of claim 40, wherein the mounting plate includes two ends, the mounting plate being curved to guide data cables adjacent the two ends.

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47. (Original) The cable routing station of claim 40, wherein the eyebrows have exposed edges, wherein the exposed edges are hemmed.
48. (Original) The cable routing station of claim 45, wherein at least one of the one or more cable routing clips rotate around an axis perpendicular to the rear face.
49. (Original) The cable routing station of claim 45, wherein at least one cable routing clip is positioned a select distance from another of the at least one cable routing clip.
50. (Previously presented) A cable routing station for managing and routing one to many data cables, the cable routing station comprising:  
a mounting plate having a front surface and a first and second edge;  
a bottom plate coupled to the mounting plate extending along the length of the front surface proximate the first edge;  
at least one hook coupled to the front surface of the mounting plate proximate the second edge of the mounting plate;  
at least one cable hinge holder coupled to the bottom plate; and  
wherein the at least one closed cable hinge holder and the at least one hook are adapted to route data cables in a select direction.
51. (Original) The cable routing station of claim 50, wherein at least one of the data cables is an optical fiber.
52. (Original) The cable routing station of claim 50, wherein the bottom plate has at least one mounting aperture.
53. (Original) The cable routing station of claim 50, wherein the mounting plate has exposed edges, the exposed edges of the mounting plate being hemmed.

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54. (Original) The cable routing station of claim 50, further comprising:  
a cable tunnel adapted to route multiple data cables, the cable tunnel coupled to the second edge of the mounting plate.
55. (Original) The cable routing station of claim 54, wherein the cable tunnel has exposed edges, the exposed edges of the cable tunnel being hemmed.
56. (Original) The cable routing station of claim 54, wherein the top surface of cable tunnel contains at least one access aperture.
57. (Currently amended) A method of managing data cables in a telecommunication system, the method comprising:  
routing data cables housed in a telecommunication chassis out of the chassis; [and]  
routing the data cables routed out of the chassis into a cable routing station attached to the chassis[.] : and  
abutting each data cable on an engagement surface of an associated eyebrow,  
wherein each data cable will have a bend radius substantially the same as the bend radius of  
the engagement surface of the associated eyebrow.
58. (Original) The method of claim 57, further comprising:  
routing each data cable through associated cable routing clips in the cable routing station.
59. (Canceled)
60. (Original) The method of claim 57, further comprising:  
hemming exposed ends of the cable routing station.

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61. (Currently amended) ~~The method of claim 57, further comprising:~~ A method of managing data cables in a telecommunication system, the method comprising:

routing data cables housed in a telecommunication chassis out of the chassis; [and]

routing the data cables routed out of the chassis into a cable routing station attached to the chassis;

routing each data cable through an associated cable hinge holder; and

routing each data cable around and engagement surface of an associated hook, wherein the engagement surface of the hook has a select bend radius.

62. (Currently amended) A system for managing and routing one or more data cables, the system comprising:

a telecommunications enclosure having an external surface, wherein the telecommunications enclosure is adapted to receive one or more data cables; and

a cable routing station including,

a bottom plate adapted to be coupled to an external surface of the telecommunication enclosure,

a rear plate extending generally perpendicular from an edge of the bottom plate and away from the external surface of the telecommunication housing, [and]

one or more cable guides coupled to the rear plate adapted to route the one or more data cables in a non-damaging fashion[.];

wherein the one or more cable guides further comprises:

one or more hooks adapted to route the one or more data cables in a select direction; and

one or more cable hinge holders, each cable hinge holder adapted to direct an associated data cable to an associated hook.

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63. (Previously presented) The system of claim 62, wherein the one or more cable guides are cable routing clips adapted to route the one or more data cables in a select direction.

64. (Canceled)

65. (Previously presented) The system of claim 62, further comprising:  
a cable channel adapted to guide the one or more data cables in a select direction, the cable channel coupled along the rear plate.

66. (Previously presented) The system of claim 62, wherein the one or more cable guides further comprises:  
a peg.

67. (Previously presented) A cable routing station for managing and routing one or more data cables, the cable routing station comprising:

a rear face having a front surface and a first edge extending along the length of the front surface;

a bottom plate extending from the first edge of the rear face at a select angle from the front surface of the rear face;

a plurality of cable routing clips coupled to the front surface of the rear face adapted to route data cables in a select direction;

one or more long cable routing clips adapted to guide data cables into the cable routing system; and

one or more eyebrows, each eyebrow being coupled to the front surface of the rear face, each eyebrow having an engaging surface that has a bend radius along its length that is within the standard bend radius for optical fibers, wherein the one or more eyebrows are adapted such that data cables abutting each eyebrow conform to the bend radius.

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68. (Previously presented) A cable routing station for managing and routing one to many data cables, the cable routing station comprising:

a mounting plate having a front surface and a first and second edge;

a bottom plate coupled to the mounting plate extending along the length of the front surface proximate the first edge;

at least one hook coupled to the front surface of the mounting plate proximate the second edge of the mounting plate;

at least one cable hinge holder coupled to the bottom plate, wherein the at least one closed cable hinge holder and the at least one hook are adapted to route data cables in a select direction; and

a cable tunnel adapted to route multiple data cables, the cable tunnel coupled to the second edge of the mounting plate.